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SOURCE Zarya Vostoka.

**GEORGIAN FERROALLOYS INDUSTRY DEVELOPS;
SCIENTIFIC RESEARCH CONTINUES**

ZESTAFONI PLANT IMPROVES PRODUCTION -- Tbilisi, Zarya Vostoka, 26 Mar 52

The Zestafoni Ferroalloys Plant imeni L. P. Beriya, which has been in operation for almost 20 years, is gradually gaining in importance. The plant operated very successfully in 1951, increasing its output 20.6 percent over 1950. The 1951 plan was fulfilled by all plant shops and for all types of alloys.

Due to economical production methods, the plant saved 1,228 tons of coke, 510 tons of slag with a high manganese content, and 2,982,000 kilowatt-hours of electric power. As a result, the plant produced a considerable quantity of ferroalloys above plan.

The electric furnaces of the plant were better operated in 1951; idle periods of furnaces were reduced 30 percent as compared with 1950, and the average productivity of furnaces for different types of alloys was increased 17 percent. However, despite these improvements, production capacities were not utilized sufficiently. During 1951, 144 tons of manganese ore and 75 tons of secondary aluminum over the allotment were used.

Technical improvements in production are being made with the help of a department of the Georgian Scientific and Technical Society of Metallurgists. In 1952, cooperation between the plant and other scientific research institutes will be intensified. Together with the Institute of Metals and Mining, Academy of Sciences Georgian SSR, research will be undertaken to obtain new alloys on an industrial scale. In May, the institute will hold a scientific-technical conference at the plant. Representatives of the Institute of Metallurgy and Chemistry, Ural Affiliate of the Academy of Sciences USSR, are participating in various work projects.

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SCIENTIFIC INSTITUTE STUDIES RAW MATERIAL PROBLEMS -- Tbilisi, Zarya Vostoka,
29 Mar 52

During 1951, the Institute of Metals and Mining, Academy of Sciences Georgian SSR, was successful in solving the problem of using poor manganese ores in the metallurgical industry.

One of the tasks facing the institute is the expansion of the raw material base for metallurgy. Especially, a system of measures must be worked out to prevent losses of manganese in processing ores of the Chiatura deposit. The Academy of Sciences must study the possibilities of industrial utilization of titanomagnetite sand from the Black Sea coast.

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